

IN THE CLAIMS:

Claim 1 (Currently amended) An apparatus for separating soil, the apparatus comprising:

a frame having a length defined between a first end and a second end;

an axle associated with the frame wherein the axle has a length defined between a first end and a second end;

a cylinder ~~associated with~~ connected to the frame wherein the cylinder has peripheral walls defining an interior wherein the cylinder has a portion extending outward with respect to the interior of the cylinder wherein the portion is movable with respect to the interior of the cylinder wherein the portion of the cylinder is located between the frame and the axle;

discs attached to the frame on opposite sides of the axle wherein the discs are between the frame and the soil and further wherein the discs rotate upon contact with the soil; and

a controller associated with the cylinder wherein the controller is remote from the frame ~~and~~ wherein the controller controls movement of the frame such that wherein the discs are moved with the frame ~~and wherein the frame pivots with respect to the axle~~ and further wherein the cylinder extends between the axle and the frame to move the frame away from the axle wherein movement of the first end of the frame in a first direction results in movement of the second end of the frame in a second direction

wherein the first direction is opposite to the second direction.

Claim 2 (Original) The apparatus of Claim 1 further comprising:

a front cylinder on the frame.

Claim 3 (Original) The apparatus of Claim 1 further comprising:

a pillar associated with the frame; and

a column inside the pillar.

Claim 4 (Original) The apparatus of Claim 3 further comprising:

a liner attached to an inside of the pillar of the frame.

Claim 5 (Original) The apparatus of Claim 3 further comprising:

plates inside the pillar supporting the column.

Claim 6 (Original) The apparatus of Claim 1 further comprising:

a hitch having a length defined between an end and a connector wherein the end of the hitch is attachable to the frame.

Claim 7 (Original) The connector of Claim 6 wherein the connector rotates 360 degrees.

Claim 8 (Original) The apparatus of Claim 1 further comprising:

tires supporting the frame.

Claim 9 (Original) The apparatus of Claim 8 further comprising:

a plug in each of the tires of the frame.

Claim 10 (Previously presented) A method for dividing soil, the method comprising the steps of:

providing a frame having a first end and a second end;

attaching an axle to the frame;

providing a cylinder associated with the frame;

connecting the frame to a vehicle;

moving the frame by remotely controlling movement of the cylinder wherein movement of the first end toward the soil pivots the frame with respect to the axle and causes movement of the second end away from the soil; and

pulling the frame over the soil.

Claim 11 (Original) The method of Claim 10 further comprising the step of:

providing a plurality of discs attached to the frame.

Claim 12 (Original) The method of Claim 10 further comprising the step of:

controlling elevation of the frame by adjusting the cylinder.

Claim 13 (Original) The method of Claim 10 further comprising the step of:

adjusting an angle of the frame with the soil by adjusting the cylinder.

Claim 14 (Original) The method of Claim 10 further comprising the step of:

self-adjusting the cylinder of the frame for controlling the angle of the frame with the soil.

Claim 15 (Previously presented) An apparatus for separating soil, the apparatus comprising:

a frame having a front cross bar and a rear cross bar wherein the front cross bar and the rear cross bar are connected by a beam maintaining a fixed distance between the front cross bar and the

rear cross bar;

a first set of discs attached to the front cross bar;

a second set of discs attached to the rear cross bar;

a pillar associated with the frame wherein the pillar has a liner inside of the pillar of the frame; and

plates associated with the pillar wherein the plates retain the liner within the pillar and wherein movement of the first set of discs toward the soil causes movement of the second set of discs away from the soil.

Claim 16 (Original) The apparatus of Claim 15 further comprising:

a cylinder associated with the frame wherein the cylinder moves the pillar and the frame relative to the inside column.

Claim 17 (Original) The apparatus of Claim 15 further comprising:

a front cylinder on the frame wherein the front cylinder moves to adjust the angle of the frame relative to the soil.

Claim 18 (Original) The apparatus of Claim 15 further comprising:

a hitch having a length defined between an end and a connector wherein the end of the hitch is attachable to the frame.

Claim 19 (Original) The connector of Claim 18 wherein the connector rotates 360 degrees.

Claim 20 (Original) The apparatus of Claim 15 further comprising:

tires supporting the frame.

Claim 21 (Previously presented) An apparatus for separating soil, the apparatus comprising:

a frame;

a cylinder associated with the frame;

a plurality of discs attached to the frame wherein the cylinder moves the frame;

a controller associated with the cylinder wherein the controller is remote from the frame and controls movement of the frame;

a pillar associated with the frame;

a column inside the pillar; and

a plurality of plates inside the pillar supporting the column wherein one of the plurality of discs moves toward the soil causing one of the plurality of discs to be moved away from the soil.

Claim 22 (Currently amended) An apparatus for separating soil, the apparatus comprising:

a frame having a length defined between a first end and a second end wherein the frame has a height defined between a top end and a bottom end;

a cylinder ~~associated with~~ attached to the frame wherein the cylinder has peripheral walls defining an interior wherein the cylinder has a length defined between a first end and a second end wherein the first end of the cylinder is attached to the frame;

a piston extending from the cylinder wherein the piston has a length defined between a proximate end and a distal end wherein the proximate end is secured to the interior of the cylinder;

a plurality of discs attached to the frame adjacent to the first end of the frame wherein the cylinder lifts ~~moves~~ the frame

wherein movement of the second end in a downward direction causes the discs to move in a direction opposite to the downward direction of the second end;

a controller associated with the cylinder wherein the controller is remote from the frame and controls movement of the piston wherein the piston moves toward the discs to lift the frame;
and

a hitch having a length defined between an end and a connector wherein the end of the hitch is attachable to the frame and wherein the connector rotates 360 degrees.

Claim 23 (Previously presented) An apparatus for separating soil, the apparatus comprising:

a frame having a length defined between a first end and a second end;

a plurality of discs attached to the frame;

a pillar associated with the frame wherein the pillar has a liner attached to an inside of the pillar of the frame;

a column inside the pillar wherein plates associated with the pillar support the column; and

a cylinder associated with the frame wherein the cylinder moves the pillar and the frame relative to the inside column wherein movement of the first end of the frame toward the soil causes movement of the second end away from the soil.

Claim 24 (Previously presented) An apparatus for separating soil, the apparatus comprising:

a frame having a length defined between a first end and a second end;

a plurality of discs attached to the frame adjacent to the first end and the second end;

a pillar associated with the frame wherein the pillar has a liner attached to an inside of the pillar of the frame;

a column inside the pillar wherein plates associated with the pillar support the column; and

a front cylinder on the frame wherein the front cylinder moves the frame relative to the soil wherein raising of the discs at the first end results in lowering of the discs at the second end with respect to the soil.

Claim 25 (Previously presented) An apparatus for separating soil, the apparatus comprising:

a frame having a length defined between a first end and a second end;

a plurality of discs attached to the frame;

a pillar associated with the frame wherein the pillar has a liner attached to an inside of the pillar of the frame;

a column inside the pillar wherein plates associated with the pillar support the column; and

a hitch having a length defined between an end and a connector wherein the end of the hitch is attachable to the frame and wherein the connector rotates 360 degrees and wherein the frame moves along the pillar and pivots at a point between the first end and the

second end.

Claim 26 (Previously presented) An apparatus for separating soil, the apparatus comprising:

- a frame having a length defined between a first end and a second end;

- a cylinder associated with the frame;

- a plurality of discs attached to the frame wherein the cylinder moves the frame;

- a controller associated with the cylinder wherein the controller is remote from the frame and controls movement of the frame wherein the cylinder raises the first end of the frame and simultaneously lowers the second end;

- a pillar associated with the frame;

- a column inside the pillar;

- a liner between the pillar and the column; and

- plates retaining the liner within the pillar.

Claim 27 (Previously presented) An apparatus for separating soil, the apparatus comprising:

- a frame having a length defined between a first end and a second end;

- a plurality of discs attached to the frame wherein a first set of discs are attached to the frame at the first end and a second set of discs are attached to the frame at the second end;

- a pillar associated with the frame wherein the pillar has a liner within the pillar;

a column within the pillar wherein the liner is positioned between the column and the pillar; and

a cylinder associated with the frame wherein the cylinder moves the pillar relative to the column and further wherein the cylinder moves the frame wherein movement of the first set of discs toward the soil causes movement of the second set of discs away from the soil.

Claim 28 (Currently amended) An apparatus for separating soil, the apparatus comprising:

a frame having a body defined by a plane wherein the frame has a length defined between a first end and a second end wherein the length of the frame defines an axis at a first position of the frame;

a plurality of discs attached to the frame;

tires attached to the frame wherein the tires are positioned between the frame and the soil and wherein the discs are positioned on opposite sides of the tires;

a pillar associated with the frame wherein the pillar has a liner within the pillar; and

a front cylinder positioned on the frame wherein the front cylinder moves ~~to adjust~~ the frame from a first position to a second position wherein the front cylinder moves the first end of the frame in a first direction vertically with respect to the axis wherein the front cylinder moves the second end of the frame in a second direction vertically with respect to the axis wherein the

first direction is opposite to the second direction and discs
~~relative to the soil~~ and wherein the tires remain in contact with
the soil independent of a position of the discs.

Claim 29 (Previously presented) An apparatus for separating soil,
the apparatus comprising:

- a frame;

- a plurality of discs attached to the frame;

- one or more pillars associated with the frame wherein each of
the pillars has a body defined between a first end and a second end
and further wherein each of the pillars has a liner within each of
the pillars;

- plates attached to the first end and the second end of each of
the pillars; and

- a hitch having a length defined between an end and a connector
wherein the end of the hitch is attachable to the frame and wherein
the connector rotates 360 degrees and wherein the frame is moved
along the body of each of the pillars.

Claim 30 (Previously presented) An apparatus for separating soil,
the apparatus comprising:

- a frame;

- an axle associated with the frame wherein the axle serves as
a fulcrum wherein the frame pivots with respect to the axle;

- a cylinder associated with the frame;

- discs attached to the frame wherein the discs are aligned on
and attached to the axle between the frame and the soil and further

wherein the discs rotate upon contact with the soil;

a controller associated with the cylinder wherein the controller is remote from the frame and controls movement of the frame such that the discs are moved with the frame;

a pillar associated with the frame;

a column inside the pillar; and

plates inside the pillar supporting the column.

Claim 31 (Currently amended) An apparatus for separating soil, the apparatus comprising:

a frame having a height defined between a top end and a bottom end;

an axle ~~associated with~~ connected to the frame wherein the axle serves as a fulcrum wherein the frame pivots with respect to the axle wherein the bottom end of the frame is located between the axle and the top end of the frame;

a cylinder ~~associated with~~ attached to the frame and to the axle wherein the cylinder has a length defined between a first end and a second end;

discs attached to the frame wherein the discs are ~~aligned on and attached to the axle~~ positioned between the frame and the soil and further wherein the discs rotate upon contact with the soil;

a controller ~~associated with~~ connected to the cylinder wherein the controller is remote from the frame and controls movement of the frame wherein the cylinder extends between the axle and the frame wherein the cylinder moves the frame away from the axle such

~~that the discs are moved with the frame; and~~

a hitch having a length defined between an end and a connector wherein the end of the hitch is attachable to the frame wherein the connector rotates 360 degrees.

Claim 32 (Previously presented): An apparatus for separating soil, the apparatus comprising:

a frame;

an axle associated with the frame;

a cylinder associated with the frame;

discs attached to the frame wherein the discs are aligned on and attached to the axle between the frame and the soil and further wherein the discs rotate upon contact with the soil;

a controller associated with the cylinder wherein the controller is remote from the frame and controls movement of the frame such that the discs are moved with the frame and wherein the frame pivots with respect to the axle;

a pillar associated with the frame; and

a column inside the pillar.

Claim 33 (Previously presented): The apparatus of Claim 32 further comprising:

a liner attached to an inside of the pillar of the frame.

Claim 34 (Previously presented): The apparatus of Claim 32 further comprising:

plates inside the pillar supporting the column.

Claim 35 (Cancelled)

Claim 36 (Cancelled)

Claim 37 (Cancelled)

Claim 38 (New): An apparatus for separating soil, the apparatus comprising:

- a frame having a length defined between a first end and a second end;

- an axle associated with the frame;

- a cylinder associated with the frame;

- discs attached to the frame on opposite sides of the axle wherein the discs are between the frame and the soil and further wherein the discs rotate upon contact with the soil; and

- a controller associated with the cylinder wherein the controller is remote from the frame and controls movement of the frame such that the discs are moved with the frame and wherein the frame pivots with respect to the axle wherein movement of the first end of the frame in a first direction results in movement of the second end of the frame in a second direction wherein the first direction is opposite to the second direction.

Claim 39 (New): The apparatus of Claim 38 further comprising:

- a liner attached to an inside of the pillar of the frame.

Claim 40 (New) The apparatus of Claim 38 further comprising:

- plates inside the pillar supporting the column.